1. Cancelled.

2. Cancelled.

3. Cancelled.

4. Cancelled.

5. Cancelled.

6. Cancelled.

C1 7. Cancelled.

8. Cancelled.

9. Cancelled.

10. Cancelled.

11. Cancelled.

11. Cancelled.

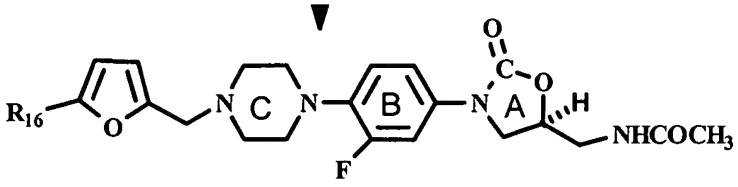
12. Cancelled.

13. Cancelled.

14. Cancelled.

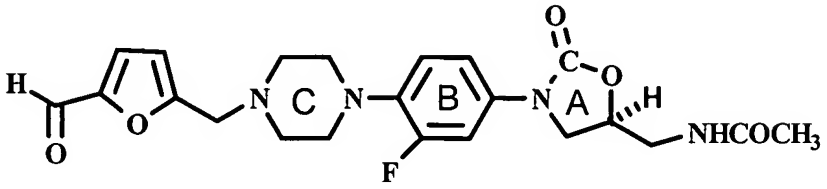
15. Cancelled.

16. (Original) A process for preparing a compound of Formula XI



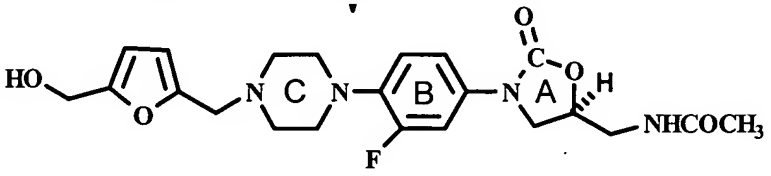
FORMULA XI

(R_{16} = -CH_2F or -CH_2F_2) by reacting a compound of Formula IX



FORMULA IX

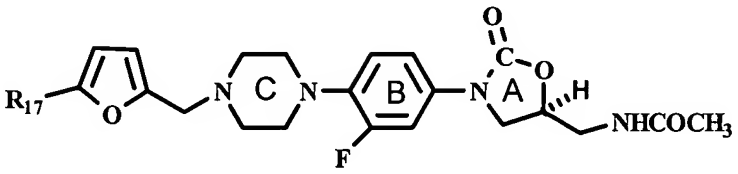
with sodium borohydride to produce a compound of Formula X



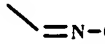
FORMULA X

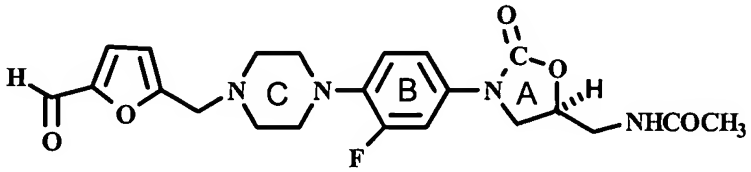
and further reacting this compound with diethylamino sulfurtrifluoride to produce compound of Formula XI.

17. (Original) A process for preparing a compound of Formula XII



FORMULA XII

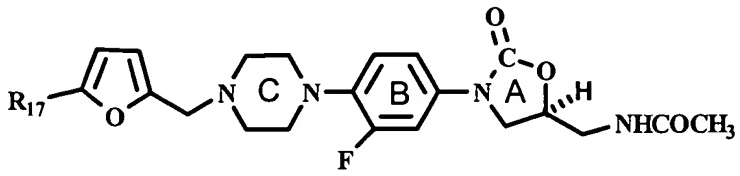
wherein R_{17} =  which comprises reacting (S)-N-[[3-Fluoro-4-[N-1[4-{2-furyl(5-formyl)methyl}]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl] acetamide of Formula IX



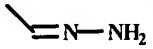
FORMULA IX

with hydroxylamine.

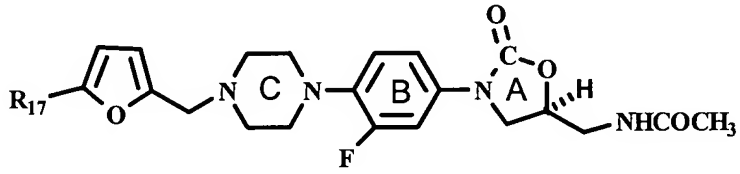
18. (Original) A process for preparing a compound of Formula XII



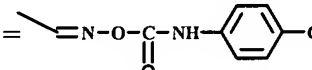
FORMULA XII

wherein R_{17} =  which comprises reacting (S)-N-[[3-[3-Fluoro-4[N-1-[4-{2-furyl-(5-hydrazone)-methyl}]-piperazinyl]-phenyl]-2-oxo-5-oxazolidinyl]-methyl]acetamide with hydrazine hydrate.

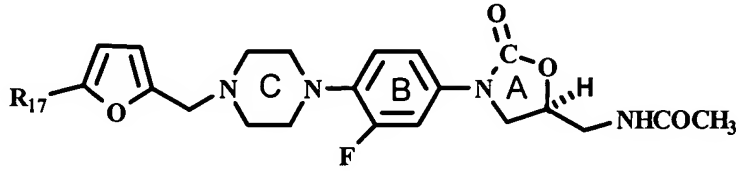
19. (Original) A process for preparing a compound of Formula XII



FORMULA XII

wherein R_{17} =  which comprises reacting (S)-N-[[3-[3-Fluoro-4-[N-1-[4-(2-furyl-(5-aldoxime)methyl}] piperazinyl] phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide with isocyanate.

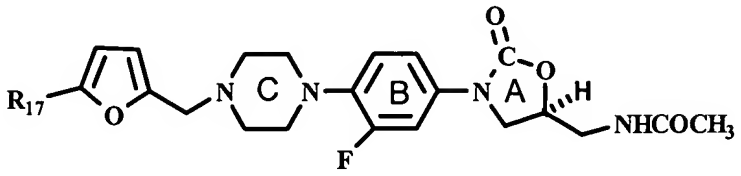
20. (Original) A process for preparing a compound of Formula XII



FORMULA XII

wherein R_{17} = CN which comprises reacting (S)-N-[[3-[3-Fluoro-4-[N-1[4-{2-furyl(5-cyano)methyl}]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide with trifilic anhydride and triethylamine.

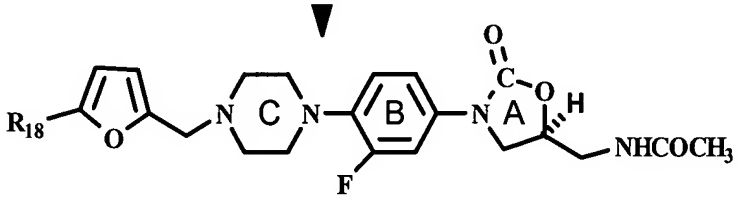
21. (Original) A process for preparing a compound of Formula XII



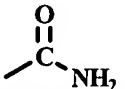
FORMULA XII

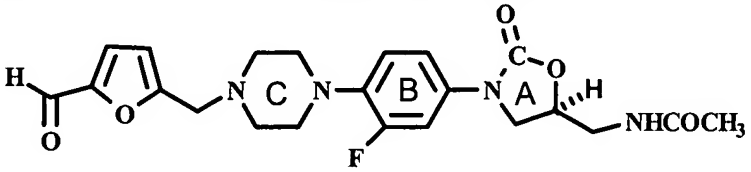
wherein R17 =  which comprises reacting (S)-N-[[3-Fluoro-4-[N-1[5-(1,3-dioxane)-2-furylmethyl]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide with 1,3-propane diol and BF_3 etherate.

22. (Original) A process for the preparation of the compound of Formula XIV



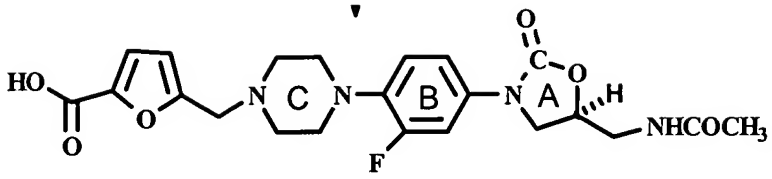
FORMULA XIV

wherein R_{18} = 
which comprises reacting (S)-N-[[3-Fluoro-4-[N-1[4-{2-furyl(5-formyl)methyl}] piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl] acetamide of Formula IX



FORMULA IX

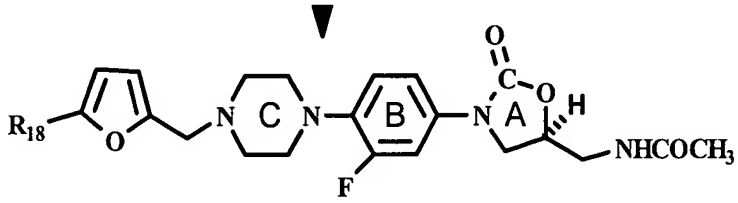
with Ag_2O to produce (S)-N-[[3-Fluoro-4-[N-1[4-{2-furyl(5-carboxy)methyl}]-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl] acetamide of Formula XIII followed by reacting (S)-N-[[3-Fluoro-4-[N-1[4-(2-furyl- (5-carboxyethyl)methyl)piperazinyl] phenyl]- 2-oxo-5-oxazolidinyl]methyl] acetamide of Formula XIII



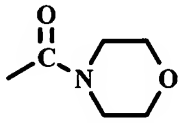
FORMULA XIII

with aqueous ammonia to produce Formula XIV.

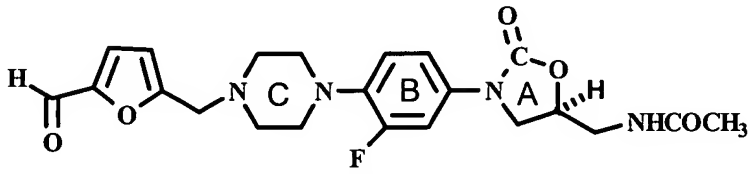
23. (Original) A process for the preparation of the compound of Formula XIV



FORMULA XIV

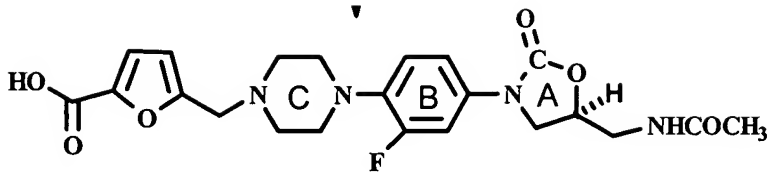
wherein R_{18} = 

which comprises reacting (S)-N-[[3-Fluoro-4-[N-1[4-{2-furyl(5-formyl)methyl}] piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl] acetamide of Formula IX



FORMULA IX

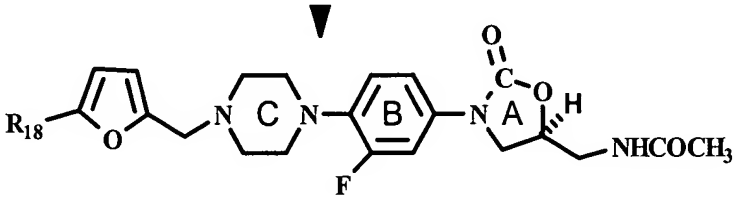
with Ag_2O to produce (S)-N-[[3-Fluoro-4-[N-1[4-{2-furyl(5-carboxy)methyl}]-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl] acetamide of Formula XIII followed by reacting (S)-N-[[3-Fluoro-4-[N-1[4-(2-furyl- (5-carboxyethyl)methyl)piperazinyl] phenyl]- 2-oxo-5-oxazolidinyl]methyl] acetamide of Formula XIII



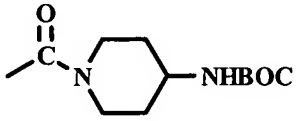
FORMULA XIII

with thionyl chloride to produce Formula XIV.

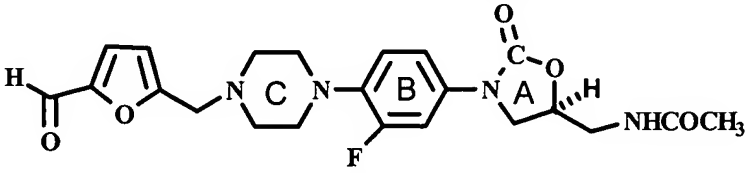
24. (Original) A process for the preparation of the compound of Formula XIV



FORMULA XIV

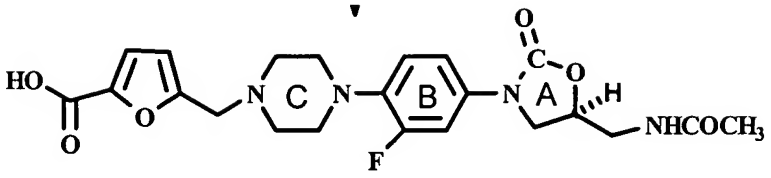
wherein R_{18} = 

which comprises reacting (S)-N-[[3-Fluoro-4-[N-1[4-{2-furyl(5-formyl)methyl}] piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl] acetamide of Formula IX



FORMULA IX

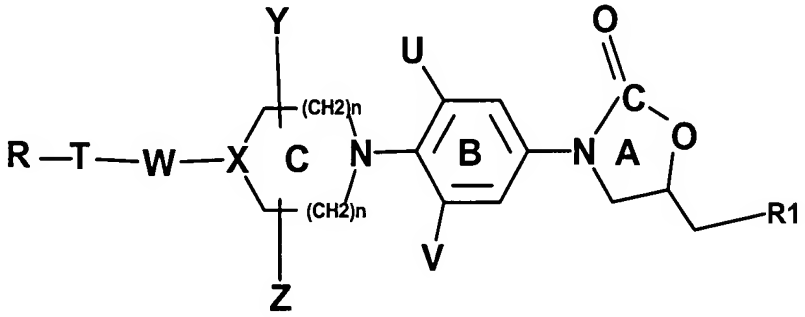
with Ag_2O to produce (S)-N-[[3-Fluoro-4-[N-1[4-{2-furyl(5-carboxy)methyl}]-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl] acetamide of Formula XIII followed by reacting (S)-N-[[3-Fluoro-4-[N-1[4-(2-furyl- (5-carboxyethyl)methyl)piperazinyl] phenyl]- 2-oxo-5-oxazolidinyl]methyl] acetamide of Formula XIII



FORMULA XIII

with morpholine in the presence of oxalyl chloride to produce Formula XIV.

25. (New) A compound having the structure of Formula I



FORMULA I

and its pharmaceutically acceptable salts, enantiomers, diastereomers, or N-oxides, wherein

T is five- to seven-membered heterocyclic ring, aryl, substituted aryl, bound to the ring **C** with a linker **W** and the heterocyclic and aryl rings are further substituted by a group represented by **R**,

wherein R is selected from the group consisting of alkyl (C_{1-6}), halogen–CN, COR_5,$COOR_5$, $N(R_6,R_7)$, CON (R_6, R_7), CH_2NO_2, NO_2, CH_2R_8, CHR_9, -CH = N-OR_{10}, -C=CH-R_5, wherein R_5 is selected from the group consisting of H, optionally substituted C_1-C_{12}, alkyl, C_{3-12}, cycloalkyl, aryl, heteroaryl; R_6 and R_7 are independently selected from the group consisting of H, optionally substituted C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy; R_8 and R_9 are independently selected from the group consisting of H, C_{1-6} alkyl, F, Cl, Br, C_{1-12} alkyl substituted with one or more of F, Cl, Br, I, OR_4, SR_4, $N(R_6,R_7)$ wherein R_4 is selected from the group consisting of H, C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6}

alkoxy, C_{1-6} alkyl substituted with one or more F, Cl, Br, I or OH and R_6 and R_7 are the same as defined earlier, R_{10} is selected from the group consisting of H, optionally substituted from H, optionally substituted C_{1-12} alkyl, C_{3-512} cycloalkyl, $C_{1-6,}$ alkoxy, C_{1-6} alkyl, aryl, heteroaryl;

n is 1;

X is N

Y and Z are independently selected from the group consisting of hydrogen, C_{1-6} alkyl, and C_{3-12} cycloalkyl;

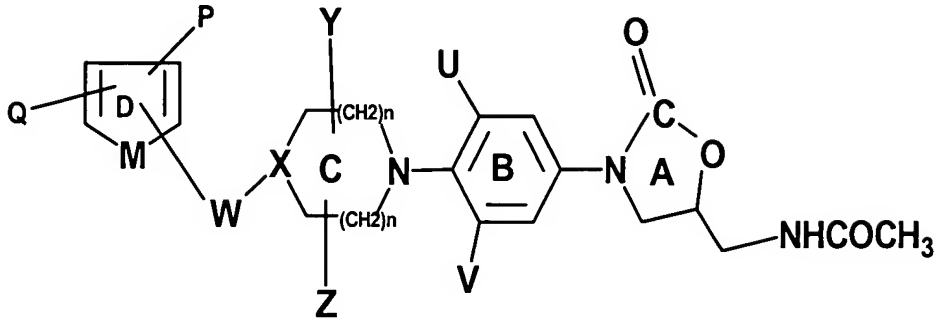
C 1

U and V are independently selected from the group consisting of hydrogen, optionally substituted C_{1-6} alkyl , F, Cl, Br, and C_{1-12} alkyl substituted with one or more of F, Cl, Br, I;

W is selected from the group CH_2, CO, CH_2NH, -$NHCH_2$, -CH_2NHCH_2, -CH_2-N (R_{11}) CH_2 -, -CO-CO-, CH_2 (R_{11}) N -, CH (R_{11}), S, CH_2(CO), N (R_{11}) wherein R_{11} is hydrogen, optionally substituted C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkyl, aryl or heteroaryl;

$\mathbf{R_1}$ is selected from the group consisting of - $NHC(=O)R_2$ wherein R_2 is hydrogen, C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkyl substituted with one or more of F, Cl, Br, I or OH; $N(R_3, R_4)$; -$NR_2C(=S)$ R_3; -$NR_2C(=S)SR_3$ wherein R_2 is the same as defined above and R_3 and R_4 are independently selected from the group consisting of H, C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkyl substituted with one or more of F, Cl, Br, I or OH.

26. (New) A compound having structure of Formula II



FORMULA II

and its pharmaceutically acceptable salts, enantiomers, diastereomers, or N-oxides, wherein

M= O, S, NH, N-CH_3;

X is N;

Y and Z are independently selected from the group consisting of hydrogen, C_{1-6} alkyl, and C_{3-12} cycloalkyl;

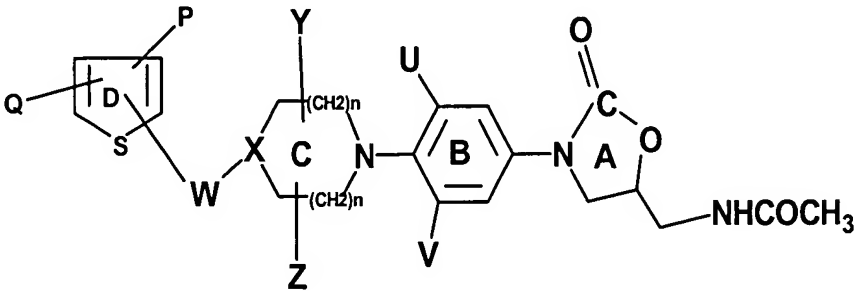
U and V are independently selected from the group consisting of hydrogen, optionally substituted C_{1-6} alkyl, F, Cl, Br, and C_{1-12} alkyl substituted with one or more of F, Cl, Br, I;

W is selected from the group consisting of CH_2, CO, CH_2NH, -$NHCH_2$, -CH_2NHCH_2, -CH_2-N (R_{11}) CH_2 - , CH_2 (R11) N -, CH (R_{11}) , S, CH_2(CO), NH wherein R_{11} is optionally substituted with C $_{1-12}$ alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy, C $_{1-6}$ alkyl , aryl , heteroaryl except when M=S, Q=P=H, W=(C=O);

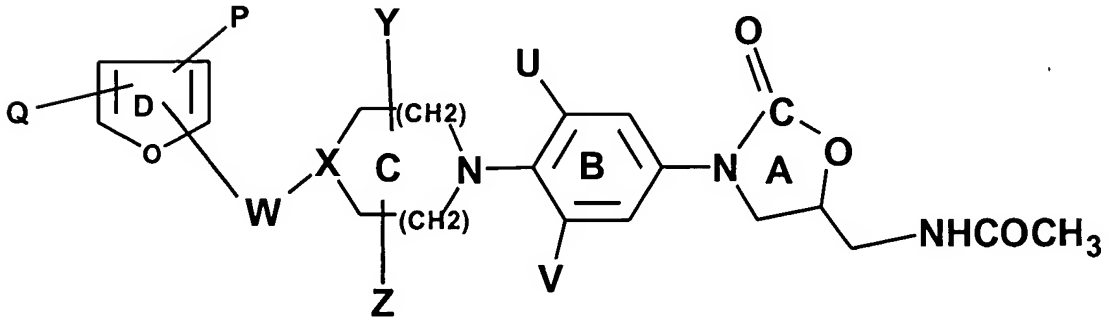
n is 1; and,

Q and P are independently selected from the group consisting of -CN, COR_5, $COOR_5$, N (R_6, R_7), CON (R_6,R_7), CH_2NO_2, NO_2, CH_2R_8, CHR_9, -CH=N-OR_{10}, C=CH-R_5, wherein R_5 is selected from the group consisting of H, optionally substituted C_{1-12}alkyl, C_{3-12} cycloalkyl, aryl, heteroaryl; R_6 and R_7 are independently selected from the group consisting of H, optionally substituted C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy; R_8 and R_9

are independently selected from the group consisting of H, C_{1-6} alkyl ,F, Cl, Br, C_{1-12} alkyl substituted with one or more of F, Cl, Br, I, OR_4, SR_4, wherein R_4 is selected from the group consisting of H, C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkyl substituted with one or more F, Cl, Br, I or OH, $N(R_6, R_7)$, R_{10} is selected from the group consisting of H, optionally substituted C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkyl, aryl, heteroaryl except W= (CO), Q and P =H and M=S, wherein M = Sulphur and Oxygen as shown by Formulae III and IV respectively,



FORMULA III



Formula IV

wherein **P, Q, U, V, X , Y, Z, W and n** in Formulae **III** and IV as defined earlier for Formula I.

27. (New) A compound selected from the group consisting of

1. (S)-N-[[3-[3-Fluoro-4-[N-1-[4-(2-furoyl) piperazinyl]]phenyl]-2-oxo-5-oxazolidinyl] methyl]acetamide

2. (S)-N-[[3-[3-Fluoro-4-[N-1[4-{2-furyl(5-formyl)methyl}]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide

3. (S)-N-[[3-Fluoro-4-[N-1[4-(2-furyl-(5-carboxyethyl)methyl)piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide

4. (S)-N-[[3-Fluoro-4-[N-1[4-(5-bromo-2-furoyl)]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl] methyl]acetamide

5. (S)-N-[[3-Fluoro-4-[N-1[4-(5-chloromethyl-2-furoyl)piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide

6. (S)-N-[[3-Fluoro-4-[N-1[4-(5-nitro-2-furoyl)piperazinyl]phenyl]-2-oxo-5-oxazolidinyl] methyl]acetamide

7. (S)-N[[3-[3-Fluoro-4-[N-1[4-{2-(2-thienyl)dicarbonyl}]piperazinyl]phenyl]2-oxo-5-oxazolidinyl]methyl]acetamide

8. (S)-N[[3-[3-Fluoro-4-[N-1[4-(3-furoyl)]piperazinyl]phenyl]2-oxo-5-oxazolidinyl]methyl] acetamide

9. (S)-N[[3-[3-Fluoro-4-[N-1[4-{2-furyl(5-bromo)methyl}]piperazinyl]phenyl]2-oxo-5-oxazolidinyl]methyl]acetamide

10. (S)-N[[3-[3-Fluoro-4-[N-1[4-{2-thienyl(5-chloro)methyl}]piperazinyl]phenyl]2-oxo-5-oxazolidinyl]methyl]acetamide

11. (S)-N[[3-[3-Fluoro-4-[N-1[4-(2-furylmethyl)]piperazinyl]phenyl]2-oxo-5-oxazolidinyl] methyl]acetamide

12. (S)-N-[[3-[3-Fluoro-4-[N-1[4-(2-thienylmethyl)]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide

13. (S)-N[[3-[3-Fluoro-4-[N-1[4-(2-thienylacetyl)]piperazinyl]phenyl]2-oxo-5-oxazolidinyl] methyl]acetamide

14. (S)-N-[[3-[3-Fluoro-4-[N-1[4-{2-thienyl(4-bromo)methyl}]piperazinyl] phenyl]-2 oxo-5-oxazolidinyl]methyl]acetamide

15. (S)-N-[[3-[3-fluoro-4-[N-1-[4-{2-furyl-(5-nitro)methyl}]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide.

16. Hydrochloric salt of (S)-N-[[3-Fluoro-4-[N-1[4-{2-furyl(5-nitro)methyl}]piperazinyl] phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide

17. Citrate salt of (S)-N-[[3-Fluoro-4-[N-1[4-{2-furyl(5-nitro)methyl}]piperazinyl] phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide

18. (S)-N[[3-[3-Fluoro-4-[N-1[4-(2-pyrrolylmethyl)]piperazinyl]phenyl]2-oxo-5-oxazolidinyl]methyl]acetamide

19. (S)-N[[3-[3-Fluoro-4-[N-1[4-{2-thienyl(3-methyl)methyl}]piperazinyl]phenyl]2-oxo-5-oxazolidinyl]methyl]acetamide

20. (S)-N[[3-[3-Fluoro-4-[N-1[4-(3-furylmethyl)]piperazinyl]phenyl]2-oxo-5-oxazolidinyl] methyl]acetamide

21. (S)-N[[3-[3-Fluoro-4-[N-1[4-{2-thienyl(5-methyl)methyl}]piperazinyl]phenyl]2-oxo-5-oxazolidinyl]methyl]acetamide

22. (S)-N[[3-[3-Fluoro-4-[N-1[4-{2-pyrrole(1-methyl)methyl}]piperazinyl] phenyl]2-oxo-5-oxazolidinyl]methyl]acetamide

23. (S)-N[[3-[3-Fluoro-4-[N-1[4-{2-thienyl(5-nitro)methyl}]piperazinyl]phenyl]2-oxo-5-oxazolidinyl]methyl]acetamide

24. (S)-N[[3-[3-Fluoro-4-[N-1[4-[2-furyl{5-(N-thiomorpholinyl)methyl}methyl]piperazinyl] phenyl]2-oxo-5-oxazolidinyl]methyl]acetamide

25. (S)-N[[3-[3-Fluoro-4-[N-1[4-[2-furyl{5-(N-morpholinyl)methyl}methyl]]piperazinyl] phenyl]2-oxo-5-oxazolidinyl]methyl]acetamide

26. (S)-N-[[3-Fluoro-4-[N-1[4-{2-furyl(5-acetoxymethyl)methyl}]piperazinyl] phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide

27. (S)-N-[[3-Fluoro-4-[N-1[4-{2-thienyl(5-bromo)methyl}]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide

28. (S)-N-[[3-Fluoro-4-[N-1[4-(5-nitro-2-furylmethyl)piperazinyl] phenyl]- 2-oxo oxazolidinyl]methyl]dichloroacetamide

29. (S)-N[[3-[3-Fluoro-4-[N-1[4-(5-nitro-2-thienoyl)]piperazinyl]phenyl]2-oxo-5-oxazolidinyl]methyl]acetamide hydrochloride

30. (S)-N[[3-[3-Fluoro-4-[N-1[4-(2',2'- diphenyl-2' hydroxy acetyl)] piperazinyl]phenyl]2-oxo-5-oxazolidinyl]methyl]acetamide

59. (S)-N-[[3-[3-fluoro-4-[N-1{2-furyl-[4-(5-difluoromethyl) methyl] piperazinyl]-2-oxo-5-oxazolidinyl]-methyl]acetamide.

60. (S)-N-[[3-[3-Fluoro-4-[N-1-[4-(2-furyl-(5-aldoxime)methyl}] piperazinyl] phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide

61. (S)-N-[[3-[3-Fluoro-4-[N-1[4-{2-furyl(5-aldoxime(methyl-4-(N-carboxyaminophenyl acetate) methyl}]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide

62. (S)-N-[[3-[3-Fluoro-4[N-1-[4-{2-furyl-(5-hydrazone)-methyl}]-piperazinyl]-phenyl]-2-oxo-5-oxazolidinyl]-methyl]acetamide

63. (S)-N-[[3-[3-fluoro-4-[N-1{2-furyl-[4-(5-difluoromethyl) methyl}]piperazinyl]-2-oxo-5-oxazolidinyl]-methyl]acetamide

64. (S)-N-[[3-[3-Fluoro-4-[N-1-[4-(2-furyl-(5-aldoxime)methyl}] piperazinyl] phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide

65. (S)-N-[[3-[3-Fluoro-4-[N-1[4-{2-furyl(5-aldoxime(methyl-4-(N-carboxyaminophenyl acetate) methyl}]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide

66. (S)-N-[[3-[3-Fluoro-4[N-1-[4-{2-furyl-(5-hydrazone)-methyl}]-piperazinyl]-phenyl]-2-oxo-5-oxazolidinyl]-methyl]acetamide

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67. (S)-N-[[3-[3-Fluoro-4-[N-1{2-furyl-[4-(5-hydroxymethyl)methyl}] piperazinyl]-2-oxo-5-oxazolidinyl]methyl]acetamide

68. (S)-N-[[3-[3-Fluoro-4-[N-1[4-{2-furyl(5-cyano)methyl}] piperazinyl]phenyl] -2-oxo-5-oxazolidinyl]methyl]acetamide

69. (S)-N-[[3-Fluoro-4-[N-1[4-{2-furyl(5-carboxy)methyl}]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl] acetamide

70. (S)-N-[[3-Fluoro-4-[N-1[5-(1,3-dioxane)-2-furylmethyl]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl] acetamide

71. (S)-N-[[3-Fluoro-4-[N-1[5-(formamido)-2-furylmethyl]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl] acetamide

72. (S)-N-[[3-Fluoro-4-[N-1[5-(morpholine-1-carbonyl)-2-furylmethyl]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl] acetamide

73. (S)-N-[[3-Fluoro-4-[N-1[5-(4-(tert butoxy carbonyl)amino piperidine)-2-furylmethyl]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl] acetamide

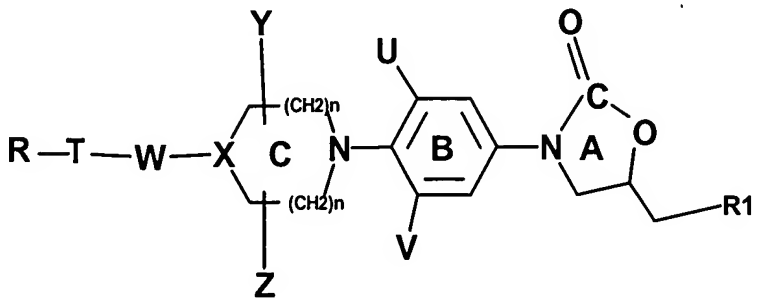
74. (S)-N-[[3-Fluoro-4-[N-1[4-{(Z)-2-methoxyimino-2-(2-furyl)acetyl}]piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide

28. (New) A pharmaceutical composition comprising the compound of claims 25, 26, or 27 and a pharmaceutically acceptable carrier.

29. (New) A pharmaceutical composition comprising a pharmaceutically effective amount of compound according to claims 25, 26 or 27, or a physiologically acceptable acid addition salt thereof with a pharmaceutically acceptable carrier for treating microbial infections.

30. (New) A method of treating or preventing microbial infections in a mammal comprising administering to the said mammal, the pharmaceutical composition according to claim 29.

31. (New) A process for preparing a compound of Formula I



FORMULA I

C 1

and its pharmaceutically acceptable salts, enantiomers, diastereomers, or N-oxides, wherein

T is five to seven membered heterocyclic ring, aryl, substituted aryl, bound to the ring **C** with a linker w and the heterocyclic and aryl rings are further substituted by a group represented by **R**,

wherein R is selected from the group consisting of –CN, COR_5,$COOR_5$, $N(R_6,R_7)$, CON (R_6, R_7), CH_2NO_2, NO_2, CH_2R_8, CHR_9, -CH = N-OR_{10}, -C=CH-R_5, wherein R_5 is selected from the group consisting of H, optionally substituted C_1-C_{12}, alkyl, C_{3-12}, cycloalkyl, aryl, heteroaryl, R_6 and R_7, are independently selected from the group consisting of H, optionally substituted C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy; R_8 and R_9 are independently selected from the group consisting of H, C_{1-6} alkyl, F, Cl, Br, C_{1-12} alkyl substituted with one or more of F, Cl, Br, I, OR_4, SR_4, $N(R_6,R_7)$ wherein R_4 is selected from the group consisting of H, C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkyl substituted with one or more F, Cl, Br, I or OH and R_6 and R_7 are the same as defined earlier, R_{10} is selected from the group consisting of H, optionally substituted from H, optionally substituted C_{1-12} alkyl, C_{3-512} cycloalkyl, C_{1-6}, alkoxy, C_{1-6} alkyl, aryl, heteroaryl;

n is 1;

X is N;

Y and Z are independently selected from the group consisting of hydrogen, C_{1-6} alkyl, and C_{3-12} cycloalkyl;

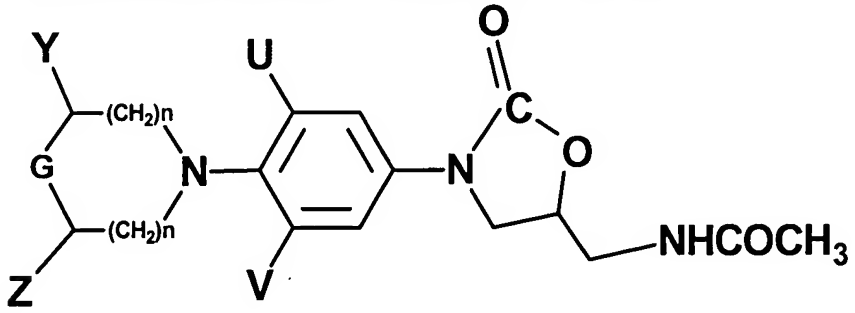
U and V are independently selected from the group consisting of hydrogen, optionally substituted C_{1-6} alkyl, F, Cl, Br, and C_{1-12} alkyl substituted with one or more of F, Cl, Br, I;

W is selected from the group consisting of CH_2, CO, CH_2NH, $-NHCH_2$, $-CH_2NHCH_2$, $-CH_2-N(R_{11})CH_2-$, $CH_2(R11)N-$, $CH(R_{11})$, S, $CH_2(CO)$, NH wherein R_{11} is optionally substituted with C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkyl, aryl, heteroaryl; and

C1

R_1 is selected from the group consisting of $-NHC(=O)R_2$ wherein R_2 is hydrogen, C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkyl substituted with one or more of F, Cl, Br, I or OH; $N(R_3, R_4)$; $-NR_2C(=S)R_3$: $-NR_2C(=S)SR3$ wherein R_2 is the same as defined above and R_3 and R_4 are independently selected from the group consisting of H, C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkyl substituted with one or more of F, Cl, Br, I or OH,

which comprises reacting an amine compound of Formula V



FORMULA V

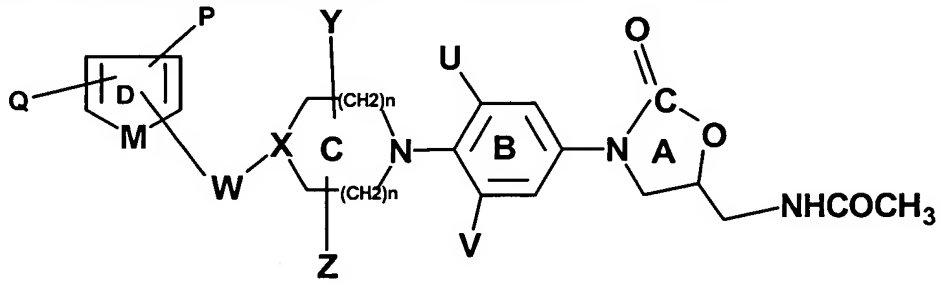
with a heterocyclic compound of Formula R-T-W- R_{12} wherein G in amines of

Formula V is defined as NH and Y, Z, U, V, R_1, n, R, T and W are the same as defined earlier and R_{12} is a leaving group selected from the group consisting of fluoro, chloro, bromo, SCH_3, -SO_2CH_3, -SO_2CF_3 or OC_6H_5.

32. (New) A process for preparing a compound of Formula I as claimed in claim 31, wherein W=CH_2 and R-T-W-R_{12} is a five membered heterocyclic ring with aldehyde group and the compound of Formula I is produced by reductive amination.

33. (New) A process for preparing a compound of Formula I as claimed in claim 31, wherein W = CO and R-T-W-R_{12} is a five membered heterocyclic ring with carboxylic acid, and amino compound of Formula V is acylated with activated esters in presence of condensing agents comprising 1,3-dicyclohexylcarbodiimide (DCC) and 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide (EDC).

34. (New) A process for the preparation of compound of Formula II



FORMULA II

wherein

n is 1;

X is N;

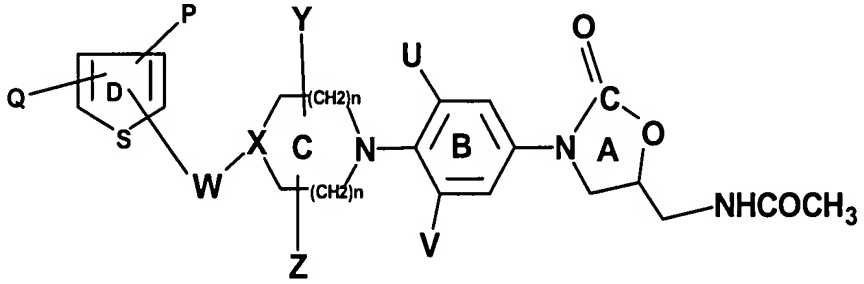
Y and Z are independently selected from the group consisting of hydrogen, C_{1-6} alkyl, and C_{3-12} cycloalkyl;

U and V are independently selected from the group consisting of hydrogen, optionally substituted C_{1-6} alkyl, F, Cl, Br, and C_{1-12} alkyl substituted with one or more of F, Cl, Br, I;

W is selected from the group consisting of CH_2, CO, CH_2NH, $-NHCH_2$, $-CH_2NHCH_2$, $-CH_2-N(R_{11})CH_2-$, $CH_2(R11)N-$, $CH(R_{11})$, S, $CH_2(CO)$, NH wherein R_{11} is optionally substituted with C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkyl, aryl, heteroaryl; and

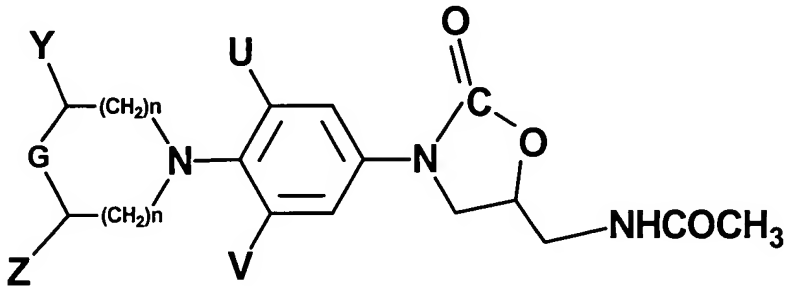
Q and P are independently selected from the group consisting of -CN, COR_5, $COOR_5$, $N(R_6, R_7)$, $CON(R_6,R_7)$, CH_2NO_2, NO_2, CH_2R_8, CHR_9, $-CH=N-OR_{10}$, $C=CH-R_5$, wherein R_5 is selected from the group consisting of H, optionally substituted C_{1-12}alkyl, C_{3-12} cycloalkyl, aryl, heteroaryl; R_6 and R_7 are independently selected from the group consisting of H, optionally substituted C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy; R_8 and R_9 are independently selected from the group consisting of H, C_{1-6} alkyl,F, Cl, Br, C_{1-12} alkyl substituted with one or more of F, Cl, Br, I, OR_4, SR_4,wherein R_4 is the same as defined before, $N(R_6, R_7)$, R_{10} is selected from the group consisting of H, optionally substituted C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkyl, aryl, heteroaryl except W= (CO), Q and P =H.

wherein M = Sulphur is shown by compounds of Formula III,



FORMULA III

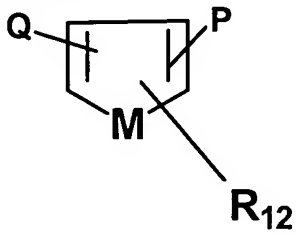
wherein **P, Q, U, V, X, Y, Z, W and n** in Formula III are the same as previously defined, wherein the process comprising reacting a compound of Formula V



FORMULA V

C1

with a compound of Formula VI



FORMULA VI

wherein P, Q, R_{12}, Y, Z, G, n, U and V are the same as defined earlier.

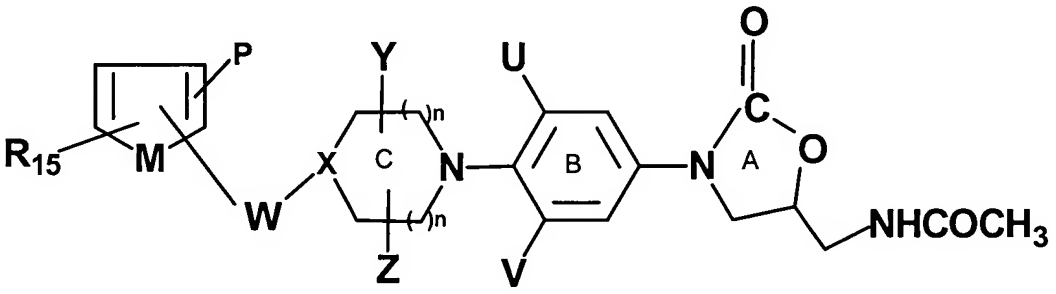
35. (New) A process for preparing a compound of Formula II as claimed in claim 34, in a solvent selected from the group consisting of dimethylformamide, dimethylacetamide, ethanol or ethylene glycol at a temperature in the range of -70°C to 180°C in the presence of a base selected from the group consisting of triethyl amine, diisopropyl amine, potassium carbonate and sodium bicarbonate.

36. (New) A process of preparing a compound of Formula II as claimed in claim 34, wherein Formula VI is furaldehyde and reductive alkylation of the amine of Formula V is performed with a reducing agent.

37. (New) A process for preparing a compound of Formula II as claimed in claim 34, wherein Formula VI is furoic acid.

38. (New) A process for preparing a compound of Formula II as claimed in claim 34, wherein the compounds of Formula II having carbonyl link are prepared by reacting a heteroaromatic compound of the Formula VI including N- methyl pyrrole with the intermediate amine of Formula V in the presence of triphosgene or phosgene and carbonyl linkers are introduced between heteroaromatic compound comprising reacting 3- bromothiophene and amine of Formula V with carbon monoxide and the catalyst is selected from the group consisting of Pd $(PPh_3)_2Cl_2$ and extended chain pyrroles having dicarbonyl linkers are obtained by treatment of oxalyl chloride and amine of the Formula V.

39. (New) A process for preparing a compound of Formula VIII



FORMULA VIII

wherein

n is 1;

X is N;

Y and Z are independently selected from the group consisting of hydrogen, C_{1-6} alkyl, and C_{3-12} cycloalkyl;

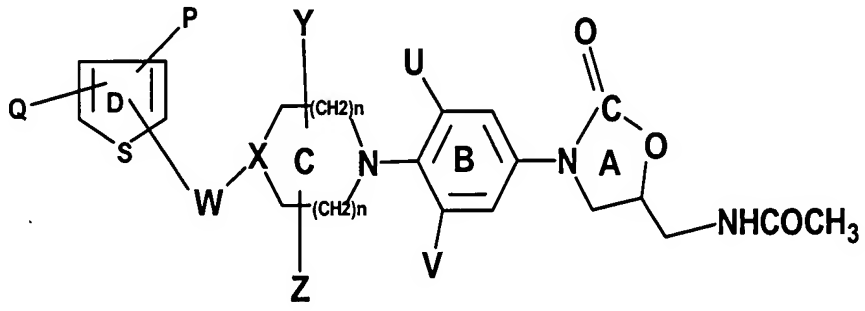
U and V are independently selected from the group consisting of hydrogen, optionally substituted C_{1-6} alkyl, F, Cl, Br, and C_{1-12} alkyl substituted with one or more of F, Cl, Br, I;

W is selected from the group consisting of CH_2, CO, CH_2NH, $-NHCH_2$, $-CH_2NHCH_2$, $-CH_2-N(R_{11})CH_2-$, $CH_2(R11)N-$, $CH(R_{11})$, S, $CH_2(CO)$, NH wherein R_{11} is

optionally substituted with C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkyl, aryl, heteroaryl;

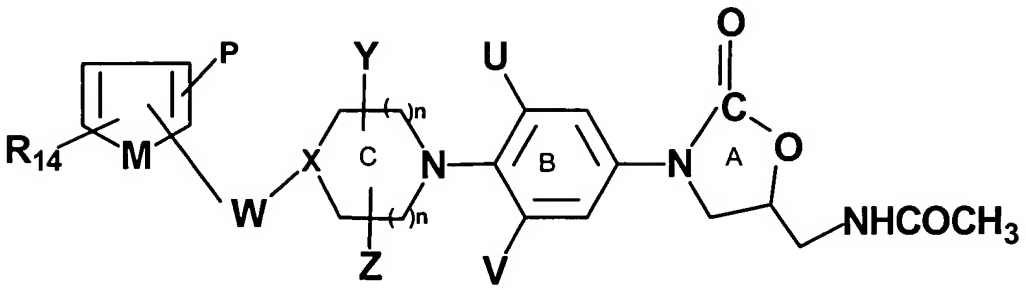
Q and P are independently selected from the group consisting of -CN, COR_5, $COOR_5$, N (R_6, R_7), CON (R_6,R_7), CH_2NO_2, NO_2, CH_2R_8, CHR_9, -CH=N-OR_{10}, C=CH-R_5, wherein R_5 is selected from the group consisting of H, optionally substituted C_{1-12}alkyl, C_{3-12} cycloalkyl, aryl, heteroaryl; R_6 and R_7 are independently selected from the group consisting of H, optionally substituted C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy; R_8 and R_9 are independently selected from the group consisting of H, C_{1-6} alkyl,F, Cl, Br, C_{1-12} alkyl substituted with one or more of F, Cl, Br, I, OR_4, SR_4,wherein R_4 is the same as defined before, N(R_6, R_7), R_{10} is selected from the group consisting of H, optionally substituted C_{1-12} alkyl, C_{3-12} cycloalkyl, C_{1-6} alkoxy, C_{1-6} alkyl, aryl, heteroaryl except W= (CO), Q and P =H;

M = Sulphur is shown by compounds of Formula III



FORMULA III

and R_{15} is the same as Q defined earlier, comprising converting a compound of Formula VII



FORMULA VII

wherein in U, V, Y, Z, X, W, P, n and M are the same as defined earlier and are R_{14} is any group which can be converted to group R_{15} in one to five steps.

Applicants have now complied with 37 CFR 1.121 and included the status indicators for each claim. Authorization is hereby given to charge any fees deemed to be due in connection herewith to Deposit Account No. 50-0912.

Respectfully submitted,

MEHTA *et al.*

By: _____
George E. Heibel
Reg. No. 42,648

Dated: September 22, 2003

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